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MONDAY, JUNE 5, 1978
PART IV

DEPARTMENT OF TRANSPORTATION

Materials Transportation Bureau

■

TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE

Leak Reporting Requirements

[4910-60]

DEPARTMENT OF TRANSPORTATION

Materials Transportation Bureau

[49 CFR Part 191]

[Docket No. OPS-49; Notice 1]

TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE; REPORTS OF LEAKS

Leak Reporting Requirements

AGENCY: Materials Transportation Bureau (MTB).

ACTION: Notice of proposed rulemaking.

SUMMARY: This Notice proposes to revise the existing gas pipeline leak reporting forms: Form DOT-F-7100.1-1, Annual Report—Distribution System (§ 191.11); Form DOT-F-7100.2-1, Annual Report—Transmission and Gathering Systems (§ 191.17); Form DOT-F-7100.1, Leak Report—Distribution System (Sec. 191.9); and Form DOT-F-7100.2, Leak Report—Transmission and Gathering Systems (§ 191.15). The revised forms would facilitate data processing, provide more appropriate data or data needed to administer new or amended statutes, and be easier to understand. In addition, the scope of Part 191 would be revised to (1) clarify and define the applicability of Part 191 to offshore pipelines and (2) revoke the present exception for gathering lines in rural areas. Also, the present exception for small petroleum gas systems from the annual reporting requirements of § 191.11 applicable to distribution systems would be revoked. At the same time, under the proposed new annual report for distribution systems, the information requested for systems that have less than 2,500 services would be significantly less than for larger systems.

DATE: Comments must be received by July 10, 1978. Late filed comments will be considered so far as practicable.

ADDRESS: Comments should identify the docket and notice numbers and be submitted in triplicate to the Docket Section, Materials Transportation Bureau, 2100 Second Street SW., Washington, D.C. 20590. Comments are available at MTB's Docket Room 6500.

FOR FURTHER INFORMATION CONTACT:

A. O. Garcia, 202-426-2082.

SUPPLEMENTARY INFORMATION:

Background for Form Revision

The objective of the proposed revised leak reporting forms is to provide the pipeline safety data that is now considered necessary for the analysis and evaluation of safety problems and the solutions to these problems by both this Department and industry. The submission of the Individual Leak Report forms is currently required in accordance with 49 CFR 191.9 and 191.15. The Annual Report forms are submitted annually on or before February 15 for the previous calendar year in accordance with 49 CFR 191.11 and 191.17.

The Federal gas pipeline safety standards (49 CFR Part 192) and the reporting requirements of Part 191 were issued in 1970. The safety standards have been amended as needed to assure public safety and reflect new technology and changes in industry practices. Of significance is the recent amendment to Part 192, making the standards applicable to certain offshore gathering lines (41 FR 34605, August 16, 1976). While these changes were made, information collected via the existing leak reporting forms has not been changed. Furthermore, since the adoption of the existing forms, this Department has received from State regulatory agencies, Federal agencies, such as the National Transportation Safety Board (NTSB), pipeline industry organizations, and other professional and interested associations, suggestions for the revision of these forms.

The Department awarded a contract study (DOT-OS-30110) in 1973 to the University of Oklahoma (UO), Office of Research Administration, to continue operation of the existing Automated Leak Test Failure Reporting System and to analyze data which was then available in the system as well as data which would be reported during the course of the contract. The final report for this contractual effort was completed in October 1974 and one of the outcomes of this study was recognition of the need to redesign the four gas pipeline data collection forms used by the Department. This study recognized the following problems:

a. The data being obtained was not in all cases complete enough to permit a comprehensive evaluation of problems identified or in some cases to identify the problem and in other cases the data was of little value.

b. The reading comprehension level of the forms was considered to be too difficult. Therefore, some of the nomenclature used in the various sections of the forms needs to be clarified so that it could be more readily understood by operators completing the report.

c. The forms were not well designed with respect to the subsequent processing of the information by electronic data processing methods.

d. Some of the laws enacted by Congress relating to operations of the Department required changes in the design of the form, particularly as related to Federal lands with pipelines passing through these lands.

In order to gain further information on a proper revision of the existing forms, in 1976 MTB solicited and received suggestions from various State agencies and pipeline industry associations. Also, in 1976, another contract (DOT-PS-70075) was issued to the UO Office of Research Administration to review MTB's draft revision of the existing forms. MTB worked closely with the UO in order to develop, among other things, the reading and comprehension level of the forms, and also the computerized format which reflects the present and future needs of both the pipeline industry and MTB. Further suggestions for revising the forms were solicited from the Technical Pipeline Safety Standards Committee, American Gas Association, and American Society of Mechanical Engineers' Pipeline Standards Committee. All suggestions have been evaluated and appropriate ones are incorporated into the proposed revised forms shown in this notice.

Background for Amending Text of Rules

NTSB has recommended that this Department promulgate Federal pipeline safety standards under the Hazardous Materials Transportation Act (49 U.S.C. 1804) for gas gathering lines located in rural onshore areas, similar to the action taken when 49 CFR Part 192 was applied to gas gathering lines offshore. In its response, the Department stated that more data was needed to identify the number and kinds of safety problems in rural gas gathering lines. MTB expects that the number and kinds of problems in these lines may have been increasing due to the increase in gas production activity since the advent of the energy shortage. Therefore, MTB is proposing to extend the applicability of the reporting requirements in Part 191 including the telephonic notice requirements of § 191.5, to include rural gas gathering lines located onshore. The information to be obtained is also needed to meet the requirements of subsections 28(w) (3) and (4) of the Mineral Leasing Act of 1920 regarding the reporting of certain safety problems on pipelines on Federal lands.

At the same time, the scope of Part 191 would be amended to make it clear that the reporting requirements apply to offshore pipelines, including gathering lines which are now subject to Part 192.

The hazards of liquefied petroleum gas have received a great deal of public attention and have been the subject of Congressional inquiries as a result of accidents causing deaths and injuries. To better assess the extent of any potential problems on small petroleum gas distribution systems, MTB is proposing that the current exception for these systems from the annual leak reporting requirements of § 191.11 be revoked. Similarly to rural gather-

ing lines, information is also needed on these systems to help fulfill the Mineral Leasing Act requirements mentioned above.

SIGNIFICANT CHANGES IN FORMS

An attempt has not been made in preparing this preamble to describe and discuss in detail every proposed change in the forms. Rather, it was decided that the following general description and discussion of proposed changes, together with publication of the proposed revised forms, would be sufficient to call attention to the various issues involved. This approach was adopted because a detailed listing of all the changes would be unnecessarily voluminous and also a much more tedious way to review the changes than simply comparing the proposed and present forms directly. Although the proposed revised forms are printed in this Notice, additional copies can be obtained from the Materials Transportation Bureau, 2100 Second Street SW., Washington, D.C. 20590.

The titles of the existing leak reporting forms are proposed to be changed as follows:

"Leak Report—Distribution System," DOT F 7100.1, is proposed to be entitled "Individual Leak Report—Gas Pipeline Distribution System," Form RSPA-1.

"Leak or Test Failure Report—Transmission and Gathering Systems," DOT F 7100.2, is proposed to be entitled "Individual Leak Report—Gas Pipeline Transmission and Gathering Systems," Form RSPA-2.

"Annual Report for Calendar Year 19— Distribution System," DOT F 7100.1-1, is proposed to be entitled "Annual Report for Calendar Year 19— Gas Pipeline Distribution System" Form RSPA-3.

"Annual Report for Calendar Year 19— Gas Transmission and Gathering Systems," DOT F 7100.2-1, is proposed to be entitled "Annual Report for Calendar Year 19— Gas Pipeline Transmission and Gathering Systems," RSPA-4.

Two types of substantive changes are being proposed for the forms. One is applicable to all four forms while the other is specific to each type of form. These two types of changes are described in the sections which follow:

A. Changes made to all four forms.

(1) In order to provide a better basis for insuring accurate data processing of the information contained in the forms, Roman numerals, letters, and small numerals are proposed to be assigned to each data entry where data is to be entered. The processing of the data can then be keyed to these letters or numerals for each data filed and thus facilitate accurate processing of the data, esecially in performing various edits of such data.

(2) The reading comprehension level of the information categories of the forms is proposed to be lowered through a deliberate choice of words requiring a lower reading comprehension level. The proposed level would not require more than a high school education.

B. Changes made to each form.

(1) The following are changes included in the proposed Forms RSPA-1 and RSPA-2:

(a) In Part V of proposed Form RSPA-1 and proposed Form RSPA-2, additional information is requested in order to clarify the reason for submission of an Individual Leak Report. The criteria for submitting these reports are in 49 CFR Part 191, Section 191.5. This change should provide MTB a quick reference regarding the various reasons for the submission of a report and also guide the operators in properly completing the subject forms. Part V would also require operators to identify if a reported leak occurred on Federal lands. This information is needed in order to comply with the Mineral Leasing Act of 1920, as amended November 16, 1973 (Pub. L. 93-153, 30 U.S.C. 185).

(b) In Parts VIII, IX, and XI of proposed Form RSPA-1 and Parts VIII, X, and XII of proposed Form RSPA-2, additional information about leaks on plastic pipe is requested. Statistics resulting from the analysis performed by UO on data collected by this Department for the calendar years 1970-1973 have indicated that plastic pipe has a higher leak rate than pipe made of other materials. The additional information will permit a better understanding of the parts of the system constructed of plastic which leak or fail as well as the type of plastic used.

(c) Part 10 of the existing data collections forms is proposed to be revised in Part XIV of Form RSPA-1 and Part XIII of Form RSPA-2 in order to clarify the information related to personal injuries resulting from the escape of gas. This information, which is to be revised to more readily identify the party killed or injured, will permit a better analysis of data.

(d) Part B of the existing forms is proposed to be revised extensively in Part XVI-B of Form RSPA-1 and Part XVII-B of Form RSPA-2. The additional requested data will provide better information for analysis regarding the types of outside force leaks and the type of damage which results from outside forces. The analysis of pipeline safety data indicated that about half of the Individual Leak Reports are due to damage by outside forces.

(e) Part C of the existing forms is proposed to be revised in Part XVI-C of Form RSPA-1 and Part XVII-C of Form RSPA-2 to include additional construction defect or material failure information that MTB has determined to be pertinent to an adequate analysis of pipeline safety. Many data entries, which MTB has found to be of no use, have been deleted from Part C of the existing form with the result that less information would be required to complete Part C of the proposed form.

(2) The following are changes included in the proposed Forms RSPA-3 and RSPA-4:

(a) The current requirement that distribution operators fill out the entire annual report form is proposed to be changed. Operators with less than 2,500 services would be required to complete approximately 10 percent of the information requested by RSPA-3. These operators comprise approximately 80 percent of the distribution operators which filed annual reports with MTB in 1977. This proposed relaxation of the reporting requirement for small operators will not appreciably affect the statistics relating to leaks reported to MTB because these operators still will be required to submit telephonic leak reports and because they provide gas service only to approximately 0.15 percent of the gas consumers in the country. The information requested from the small operators would be printed in blue for easy identification.

NOTE.—The proposed forms shown in this notice are printed in black and white, and, to aid interested persons in identifying which parts will be blue on the final form, solid vertical bars have been added to the left margin of Form RSPA-3. Also, for this Notice, the forms are divided into four pages each; however, the final forms will be printed one page each, 21 inches long. It is important to note that besides distribution companies, liquefied petroleum gas system operators and master meter system operators with less than 2,500 services would be able to take advantage of this proposed change.

(b) In Part I of RSPA-3, a new section relating to liquefied petroleum gas systems and master meter systems is proposed to be added. This information is needed in order for MTB to keep a current record of the leaks occurring in these systems. The existing requirement (Section 191.11(b)) which excludes petroleum gas systems serving less than 100 customers from a single source would be revoked.

(c) In order to assess the changes in pipelines in this country and Puerto Rico, Part III relating to the miles of mains and number of services, for proposed Form RSPA-3, and miles of transmission onshore/offshore, for proposed Form RSPA-4, would be revised to identify the type and location of the lines and to identify whether lines were added, retired, or replaced.

(d) In Part IV of proposed forms RSPA-3 and RSPA-4, the nomenclature would be changed regarding the description of pipe in order to make a better analysis of coated, bare, cathodically and noncathodically protected pipelines. This information is needed in order to have a better understanding of the sizes of various operators' systems and also to relate this request-

ed information to the average leaks for protected and nonprotected pipelines, and to compare the behavior among metallic and plastic pipe. In addition, these proposed changes will facilitate the completion of the proposed forms by the operators.

(e) Part V of RSPA-3 and RSPA-4 relates the cause of the leak to the specific location or type of component that leaked. The type of causes of leaks is proposed to be substantially expanded to more appropriately cover most of the causes of leaks. It is also being proposed in Part V of both forms to request additional information about leaks on plastic pipe and related components. Statistics resulting from the analysis performed by UO on data collected by this Department for the calendar years 1970-1973 have indicated that plastic pipe has a higher leak rate than pipe made of other materials. The additional information will permit a better understanding of the parts of the system constructed of plastic which leak or fail as well as the type of plastic used.

The proposed changes to Part V would also result in additional information regarding outside force damage. The UO analysis indicated that a majority of all serious leaks resulted from outside force damage, especially to lines of distribution operators. In order to develop a more comprehensive understanding of the cause of outside force damage, it is proposed that this category be divided to include "construction equipment and blasting" and "natural causes" with the respective definitions included as part of the specific instructions for the completion of the subject forms.

(f) Part VI of both forms proposes to require the operators to identify in RSPA-3 the number of leaks in mains and in services, and in RSPA-4 the number of leaks in transmission lines and in gathering lines during the year by cause and by decade of installation. This information is needed to identify the major causes of leaks and to relate these causes to age of the facility. This information can be used to determine if the cause of leaks is related to age of the pipe and to design preventive maintenance programs. Parts VI of both forms would also require the operators to identify, from the System Total, the number of leaks which occurred in Federal lands by Cause of Leak. This information is needed to comply with the Mineral Leasing Act of 1920, as amended November 16, 1973 (Pub. L. 93153, 30 U.S.C. 185).

(g) Parts VII and VIII in RSPA-3 would require the operators to identify the miles of mains and the number of services in their system at end of the year by material and by nominal size, and Part VII in RSPA-4 would require the operators to identify the miles of transmission and gathering lines in their system at end of year by nominal size and by material. This information is needed to give the Department a comparison of the make of different systems in order to provide a relationship of the problems between different systems as well as a statistical base for analyzing the relative frequency on a per unit basis of leaks on each specific material. Such data can be used to identify problems associated with each specific material on a local or national basis and can be used as a guide for determining need for regulatory action. It can also be used by operators to design preventive maintenance programs.

(h) Information previously requested from distribution and transmission operators related to frequency of inspection for cathodically protected mains, services, transmission, and gathering lines has been deleted because the past management of the data showed that such information was not needed. Similarly, information previously requested about leak surveys has been deleted from the proposed forms. This also should reduce the workload of the pipeline operators in completing the forms.

(i) Parts Q and N of the existing forms are proposed to be revised in Part XI of Form RSPA-3 and Part IX of Form RSPA-4 in order to clarify the information related to personal injuries resulting from the escape of gas. This information, which would be revised to more readily identify the party killed or injured, would permit a better analysis of data.

(3) The specific instructions for completing the Annual Report Forms are proposed to be renumbered Forms RSPA-3A and RSPA-4A, respectively. These instructions would also be revised to improve their readability by using a concise and direct style of writing which will clarify some terms needed for the appropriate completion of the forms. As the instructions undergo change in future reporting periods, modified layouts and revised instructions will be prepared by the Department and mailed to the operators, together with appropriate documentation, if necessary, that describes the authorization and the details of all such changes, additions, or deletions. The instructions for the proposed revised Individual Leak Report forms have been entered directly into the forms. These forms have been designed to minimize the need for additional specific instructions.

Anticipated Benefits

The anticipated benefits that would be drived from the use of the proposed revised leak reporting forms are as follows:

1. Collect additional or revised useful statistical information necessary to assemble facts that will enable the Department to better define safety problems and devise regulatory solutions.

2. Provide additional information necessary to comply with additional statutory responsibilities assigned to MTB.

3. Delete information which has been determined unnecessary after 8 years of data collection experience.

4. Facilitate the extraction of data from the forms in order to provide this information for reports and replies to correspondence from Congress, the industry, and the general public.

5. Provide easier and more accurate transfer of data from the forms into data processing storage devices.

6. Make it easier for operators to submit requested information since the reporting burden is substantially reduced by reporting with the proposed forms.

7. Provide improved and easier to understand instructions and clarification of terms needed for the appropriate completion of the forms.

MTB has determined that this document does not contain a major proposal requiring preparation of a Regulatory Analysis under Department procedures for "Improving Government Regulations" implementing Executive Order 12044.

Effective Date: The revised Individual Leak Report forms (Forms RSPA-1 and RSPA-2) are proposed to become effective January 1, 1979, with Annual Report forms (Forms RSPA-3 and RSPA-4) for calendar year 1979 to be submitted to MTB on or before February 15, 1980.

In consideration of the foregoing, MTB proposes that Part 191 of Title 49 of the Code of Federal Regulations be amended as follows:

1. By revising § 191.1 to read as follows:

§ 191.1 Scope.

(a) This Part prescribes requirements for the reporting of gas leaks requiring immediate or scheduled repair and of test failures on pipeline facilities used in the transportation of gas, including pipeline facilities used in the transportation of gas within the limits of the Outer Continental Shelf as that term is defined in the Outer Continental Shelf Lands Act (43 U.S.C. 1331), by persons engaged in the transportation of gas.

(b) This Part does not apply to—

(1) Gas leaks intended by persons engaged in the transportation of gas; or

(2) Offshore gathering of gas upstream from the outlet flange of each facility on the Outer Continental Shelf where hydrocarbons are produced or where produced hydrocarbons are first separated, dehydrated, or otherwise processed, whichever facility is farther downstream.

§§ 191.9, 191.11, 191.15, and 191.17 [Amended]

2. By changing the Department of Transportation report form identification numbers in §§ 191.9(a), 191.11(a), 191.15(a), and 191.17(a) from "DOT-F-7100.1," "DOT-F-7100.1-1," "DOT-F-7100.2," and "DOT-F-7100.2-1" to "RSPA-1," "RSPA-3," "RSPA-2," and "RSPA-4," respectively.

3. By revoking paragraph (b) of § 191.11.

4. By establishing new leak reporting forms and pertinent instructions as set forth below.

(Sec. 3, Pub. L. 90-481, 82 Stat. 721 (49 USC 1672); for offshore gathering lines, Sec. 105, Pub. L. 93-633, 88 Stat. 2157 (49 USC 1804); 49 CFR App. A of Part 1 and App. A of Part 102.)

Issued in Washington, D.C., on May 31, 1978.

CESAR DE LEON,
Acting Director, Office of Pipeline Safety Operations.

Form RSPA-1 (xx-78)
-SUPERSEDES FORM DOT F 7100.1

"X" one ☐ INITIAL REPORT ☐ SUPPLEMENTAL REPORT

NOTICE: This report is required by 49 CFR Part 191. Failure to report can result in a civil penalty not to exceed $1,000 for each violation for each day that such violation persists, except that the maximum civil penalty shall not exceed $200,000 as provided in 49 U.S.C. 1678

Form Approved: OMB No. 04-RXXXX

PART I	REPORT DATE
MONTH 1 2	DAY 3 4
YEAR 5 6	

DEPARTMENT OF TRANSPORTATION
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION

INDIVIDUAL LEAK REPORT
GAS PIPELINE DISTRIBUTION SYSTEM

PART II INSTRUCTIONS (Please read before completing form)

A. 1. Submit one complete copy of this form for each leak with all applicable parts (Parts I through XVII) completed and report signed.

2. "X" appropriate box below for specific cause of leak and complete pertinent part(s) of Part XVI on reverse side.

1 ☐ CORROSION - PART XVIA 2 ☐ DAMAGE BY OUTSIDE FORCE - PART XVIB 3 ☐ CONSTRUCTION DEFECT OR MATERIAL FAILURE - PART XVIC 4 ☐ OTHER (Describe the incident in detail in Part XVID)

B. To answer questions with answer boxes, choose the appropriate number(s) of the listed answer(s) and enter in the box(es) provided in the lower right corner of the item.

C. Enter numbers in boxes on the right, inserting zeroes as necessary to fill all boxes. EXAMPLE 0 0 3 8

D. If an item does not apply, enter "NA" in all appropriate box(es) or space(s).

E. If requested information is unknown, enter "UNK" in appropriate box(es) or space(s). A supplemental report should be submitted as soon as unknown information is obtained.

F. If additional information is needed to complete this form telephone the Department of Transportation, Materials Transportation Bureau, Area Code 202, 426-3046, Monday through Friday, 8:30 A.M. to 5:00 P.M., Eastern Time.

G. This leak must be reported within 20 days after detection.

PART III OPERATOR INFORMATION (Show Principal Company Office)

A. NAME OF OPERATOR	B. OPERATOR CODE (1 2 3 4 5)	C. NUMBER & STREET
DRAFT		
D. CITY	E. COUNTY	F. STATE / G. ZIP CODE

PART IV FOR MATERIALS TRANSPORTATION BUREAU USE ONLY

A. LOCATION CODE (STATE 1 2 / CITY 3 4 5 / COUNTY 6 7 8)	B. MTB CODE (1 2 3 4 5 6 7 8 9)	C. OPERATOR CLASSIFICATION (1 2 3 4)

PART V REPORT DATA

A. REASON FOR REPORT

1 ☐ FATALITY OR INJURY REQUIRING HOSPITALIZATION
2 ☐ IGNITION OF GAS
3 ☐ PROPERTY DAMAGE $5,000 OR MORE
4 ☐ WHEN TAKING SEGMENT OF PIPELINE OUT OF SERVICE
5 ☐ OPERATOR JUDGEMENT
6 ☐ LEAK REQUIRING EMERGENCY ACTION

B. PREVIOUSLY REPORTED BY TELEPHONE: 1 ☐ YES 2 ☐ NO

C. LEAK ON FEDERAL LANDS

1 ☐ "X" IF LEAK OCCURRED ON FEDERAL LANDS ("Federal Lands" means all lands owned by the United States except, lands in the National Park System, lands held in trust for an Indian or Indian Tribe, and lands on the Outer Continental Shelf.)

2. NAME FEDERAL AGENCY(IES) THAT GRANTED PIPELINE RIGHT-OF-WAY:

PART VI LOCATION AND TIME OF LEAK

A. NUMBER & STREET	B. CITY	
C. COUNTY	D. STATE	E. ZIP CODE

F. TIME OF DETECTION (For Hour use 24-hour clock) MONTH 1 2 / DAY 3 4 / HOUR 5 6 7 8	G. ESTIMATED PRESSURE AT POINT AT TIME OF LEAK PSIG 1 2 3 4
H. TIME BETWEEN DETECTION AND WHEN AREA WAS MADE SAFE (i.e., under control) HOURS 1 2 / MINUTES 3 4	I. MAXIMUM ALLOWABLE OPERATING PRESSURE PSIG 1 2 3 4

RSPA-1

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PART VII LEAK DETECTION METHOD AND REPORTING

A. DETECTED BY
1. ROUTINE LEAK SURVEY
2. OUTSIDE PARTY
3. OTHER OPERATOR ACTION (Specify) _____

B. REPORTED BY
1. OPERATOR PERSONNEL
2. PARTY CAUSING DAMAGE
3. POLICE OR FIREMAN
4. PUBLIC
5. OTHER (Specify) _____

PART VIII ORIGIN OF LEAK

A. PIPE
1. BODY

B. SEAM
2. SPIRAL OR LONGITUDINAL

C. JOINT
3. GAS GIRTH WELD
4. ARC GIRTH WELD
5. PLASTIC-FUSION, ADHESIVE, OR SOLVENT
6. MECHANICAL
7. BELL & SPIGOT
8. THREADED
9. OTHER (Specify) _____

D. COMPONENT
10. FITTING (Includes nipples, manifolds, sleeves, ells, tees, etc.)
11. VALVE
12. TAP FITTING
13. REGULATOR
14. METER
15. OTHER (Specify) _____

E. YEAR OF INSALLATION (Enter last two figures of year) _____

DRAFT

PART IX PIPE DATA

A. DESCRIPTION
1. NOMINAL DIAMETER IN INCHES (Round off to two figures, rounded off to next whole lower figure)
2. NOMINAL WALL THICKNESS IN INCHES (Round off to three figures to right of decimal point)
3. SPECIFICATIONS →
4. GRADE OR SMYS →

B. METHOD OF MANUFACTURE
1. STEEL
1. SEAMLESS
2. ELECTRIC-RESISTANCE WELDED
3. SUBMERGED ARC WELDED
4. BUTT WELDED (Includes Electric-Fusion)
5. FURNACE-LAP WELDED
6. ELECTRIC FLASH WELDED

2. CAST IRON
1. CENTRIFUGALLY CAST
2. PIT CAST

3. PLASTIC
1. POLYETHYLENE
2. POLYVINYL CHLORIDE (PVC)
3. THERMOSETTING
4. OTHER (Specify) _____

4. OTHER PIPE MATERIAL (Specify)

PART X WHERE LEAK OCCURRED

A. PART OF SYSTEM
1. MAIN
2. SERVICE
3. OTHER (Specify) _____

PART XI MATERIAL OF PART WHICH LEAKED

A. TYPE
1. STEEL
2. COPPER
3. CAST IRON
4. DUCTILE IRON
5. POLYETHYLENE
6. POLYVINYL CHLORIDE (PVC)
7. THERMOSETTING PLASTIC
8. SEALANT OR GASKET
9. OTHER (Specify) _____

B. WAS MATERIAL OF THE LEAKED OR FAILED PART THE SAME AS THAT OF THE ADJOINING PART? → 1. YES 2. NO
If (Describe the material of the adjoining pipe)

C. IS A METALLURGICAL ANALYSIS PLANNED?
1. YES 2. NO

PART XII TYPE OF REPAIR

A. PIPE
1. WELD OVER SLEEVE
2. PATCH WELDED
3. CLAMP
4. REPLACE PIPE
5. OTHER REPAIR OR DISPOSITION (Specify) _____

B. COMPONENT
1. REPLACED
2. RECONDITIONED
3. OTHER (Specify)

PART XIII EXTENT OF DAMAGE FROM ESCAPE OF GAS

A. EXPLOSION OCCURRED?
1. YES 2. NO

B. GAS IGNITED?
1. YES 2. NO

C. INCIDENT INDUCED ADDITIONAL EXPLOSIONS OR FIRES?
1. YES 2. NO

D. TOTAL ESTIMATED COST TO THE OPERATOR FOR REPAIR OR REPLACEMENT OF THE SEGMENT OF THE SYSTEM THAT FAILED (Include material, equipment, gas lost, labor, supervision and overhead.) → $

PART XIV PERSONAL INJURIES RESULTING FROM ESCAPE OF GAS

* Injured means non-fatal injuries requiring hospitalization.	NUMBER OF FATALITIES	NUMBER OF PERSONS INJURED *
A. EMPLOYEE(S) OF OPERATOR	1.	2.
B. EMPLOYEE(S) OF OPERATOR'S CONTRACTOR	1.	2.
C. EMPLOYEE(S) OF/OR OUTSIDE PARTY CAUSING DAMAGES	1.	2.
D. MEMBER(S) OF THE PUBLIC	1.	2.

PART XV ENVIRONMENTAL DESCRIPTION

A. PREDOMINANT TYPE OF AREA
1. COMMERCIAL
2. INDUSTRIAL
3. RESIDENTIAL
4. RURAL

B. CLASS LOCATION * AT TIME OF CONSTRUCTION CLASS: 1, 2, 3, 4

C. CLASS LOCATION * AT TIME OF INCIDENT CLASS: 1, 2, 3, 4

* See Sec. 192.5, 49 CFR, Part 192 for definition.

D. DEPTH OF COVER (Number of feet measured below normal grade of natural bottom, if under water)
1. 1 TO 12
2. 13 TO 18
3. 19 TO 24
4. 25 TO 36
5. 37 TO 48
6. OVER 48

E. GROUND COMPOSITION AT PIPE DEPTH
1. SOIL
2. ROCK
3. OTHER (Specify) _____

F. ESTIMATED SOIL TEMPERATURE AT POINT OF LEAK... °F

Please Continue on Reverse

Form RSPA-1 Page 3

PART XVI CAUSE OF LEAK

A. CORROSION

1. GENERAL CORROSION INFORMATION

a. TYPE CORROSION
(1). INTERNAL (2). EXTERNAL

b. DESCRIPTION
(1). PITTING (2). GENERAL (3). BOTH

c. CAUSE
(1). GALVANIC (4). OTHER (Specify) ____
(2). BACTERIAL
(3). STRAY CURRENT

2. EXTERNAL PIPE COATING INFORMATION

a. COATING
(1). BARE (2). COATED AND/OR WRAPPED

b. YEAR COATING INSTALLED
(Enter last two figures of year)

c. SITE OF COATING APPLICATION
(1). MILL (2). YARD (3). FIELD (4). UNKNOWN

d. MATERIAL
(1). COAL TAR
(2). ASPHALT
(3). WAX
(4). PREFABRICATED FILM
(5). THIN FILM
(6). OTHER (Specify) ____

DRAFT

3. COATING FAILURE INFORMATION

a. CAUSE
(1). DAMAGE
(2). DEFECTIVE MATERIAL
(3). DEFECTIVE APPLICATION
(4). DECOMPOSITION
(5). OTHER (Specify) ____

4. CATHODIC PROTECTION INFORMATION

a. PROTECTED?
(1). YES (2). NO

b. YEAR PROTECTION STARTED
(Enter last two figures of year)

c. TYPE
(1). IMPRESSED (3). OTHER (Specify) ____
(2). GALVANIC

d. pH OF UNDISTURBED SOIL NEAREST THE LEAK, IF NOT UNDERWATER (One decimal)

5. SOIL RESISTIVITY

a. LATEST SOIL RESISTIVITY MEASURMENT IN AREA OF LEAK (ohm - cm)

b. DATE OF MEASUREMENT MONTH DAY YEAR

c. DISTANCE FROM LEAK (Feet)

6. PIPE-TO-SOIL POTENTIAL

a. LATEST PIPE-TO-SOIL POTENTIAL MEASUREMENT IN UNDISTURBED SOIL AT NEAREST POINTS ON EACH SIDE OF THE LEAK WITHIN THE SAME ELECTRICALLY CONDUCTIVE SEGMENT.
____ (mil'y - ve) AND ____ (millivolts)

b. DISTANCE FROM LEAK TO EACH MEASUREMENT POINT
____ (feet) AND ____ (feet)

c. DATE OF MEASUREMENT MONTH DAY YEAR

B. DAMAGE CAUSED BY OUTSIDE FORCES

1. LEAK

a. PRIMARY CAUSE
(1). CONSTRUCTION EQUIPMENT AND BLASTING BY DIRECT CONTACT OR BY EARTH MOVEMENT INDUCED BY ACTION OF MAN.
(2). OTHER EQUIPMENT OR VEHICLE(S) (Includes hand tools, trucks, automobiles, motorcycles, snowmobiles, etc.)
(3). NATURAL CAUSES (Includes landslides, subsidence, earthquake, flood, lightning, etc.)
(4). WILLFUL (Includes vandalism, sabotage, etc.)
(5). HOUSE FIRE RESULTING IN GAS FIRE.

2. DAMAGE BY EQUIPMENT OF OUTSIDE PARTY

a. WAS OUTSIDE FORCE DAMAGE CAUSED BY DIRECT CONTACT OF EQUIPMENT OR BLASTING? (1) YES (2) NO

b. WAS OUTSIDE FORCE DAMAGE INDUCED BY EARTH MOVEMENT? (1) YES (2) NO

c. DID OPERATOR GET PRIOR NOTIFICATION THAT THE EQUIPMENT WOULD BE USED IN THE AREA? (1) YES (2) NO

d. DATE OF PRIOR NOTIFICATION IF RECEIVED BY OPERATOR. MONTH DAY YEAR

e. WAS THE PIPELINE MARKED OR IDENTIFIED?
(1) YES (2) NO

f. NUMBER OF HOURS IN WHICH NOTIFICATION WAS RECEIVED PRIOR TO START OF EXCAVATION.
(1). 0-12 (3). 25-48
(2). 13-24 (4). OVER 48

g. WHAT TYPE OF MARKING OR IDENTIFICATION WAS USED TO ADVISE OUTSIDE PARTY OF LOCATION OF PIPE?
(1). PERMANENT MARKERS (7). ON-SITE OBSERVATION
(2). MAP FURNISHED (8). OTHER (Specify)
(3). TEMPORARY STAKES
(4). PAINT
(5). EXCAVATION
(6). VERBAL INSTRUCTIONS

h. DID OUTSIDE PARTY EXPOSE PIPELINE BY HAND PRIOR TO DAMAGE? (1) YES (2) NO

i. DOES STATE STATUTE OR LOCAL ORDINANCE REQUIRE THE OUTSIDE PARTY TO NOTIFY THE OPERATOR? (1) YES (2) NO

3. DAMAGE BY NATURAL CAUSES

a. PRIMARY CAUSE
(1). SUBSIDENCE (3). LANDSLIDE (4). OTHER (Specify) ____
(2). EARTHQUAKE (4). FLOOD (5). LIGHTING

Form RSPA-1 Page 4

C. CONSTRUCTION DEFECT OR MATERIAL FAILURE

1. LEAK

a. PRIMARY CAUSE (1). CONSTRUCTION DEFECT (2). MATERIAL FAILURE (3). IMPROPER INSTALLATION (4). INAPPROPRIATE COMPONENT

2. MATERIAL INFORMATION

a. NAME OF MANUFACTURER | b. NOMINAL SIZE

c. YEAR MANUFACTURED (Enter last two figures of year) | d. MANUFACTURER'S PRESSURE RATING PSIG | e. MANUFACTURER'S CODE OR SPECIFICATIONS

3. MOST RECENT TEST DATA PRIOR TO LEAK

a. TEST DATA FOR (1). INITIAL POST-CONSTRUCTION TEST (2). SUBSEQUENT TEST (3). NOT TESTED (4). UNKNOWN

b. TEST MEDIUM (1). AIR (2). WATER (3). GAS (4). OTHER (Specify) _____

c. DATE OF TEST MONTH DAY YEAR

d. MINIMUM TEST PRESSURE PSIG

e. TIME HELD AT TEST PRESSURE HOURS

f. ESTIMATED TEST PRESSURE AT POINT OF LEAK PSIG

g. QUALIFIED MAOP OF FACILITY PSIG

h. IF NOT TESTED, DESCRIBE BASIS FOR MAOP QUALIFICATION

D. OTHER

DESCRIPTION OF INCIDENT WHEN BOX 4, PART II A2 IS "X'ed" (If more space is needed, continue on a separate sheet, identify with name of operator, and attach to this sheet.)

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PART XVII ADDITIONAL DATA

A. FOR CONTINUATION OF EXPLANATION OF ITEMS ABOVE (If more space is needed, continue on a separate sheet, identify with name of operator, and attach to this sheet.)

REPORTING OFFICIAL

B. CERTIFICATION: I certify that all the statements and answers given on this form and all attachments hereto are complete, correct, and true to the best of my knowledge.

TYPED OR PRINTED NAME AND TITLE	SIGNATURE	TELEPHONE NUMBER (Include Area Code)

Form RSPA-2 (xx-78)
SUPERSEDES FORM DOT F 7100.2

"X" one ☐ INITIAL REPORT ☐ SUPPLEMENTAL REPORT

NOTICE: This report is required by 49 CFR Part 191. Failure to report can result in a civil penalty not to exceed $1,000 for each violation for each day that such violation persists, except that the maximum civil penalty shall not exceed $200,000 as provided in 49 U.S.C. 1678

Form Approved: OMB No. 04-RXXXX

DEPARTMENT OF TRANSPORTATION
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION

INDIVIDUAL LEAK REPORT - GAS PIPELINE TRANSMISSION & GATHERING SYSTEMS

PART I — REPORT DATE AND TYPE

A. DATE — MONTH (1 2) DAY (3 4) YEAR (5 6)

B. TYPE — 1 ☐ OPERATIONAL 2 ☐ TEST →

If test report: C. TEST ON 1 ☐ NEW CONSTRUCTION 2 ☐ EXISTING FACILITY

PART II — INSTRUCTIONS (Please read before completing form)

A. 1. Submit one complete copy of this form for each leak with all applicable parts (Parts I through XVIII) completed and report signed.

2. "X" appropriate box below for specific cause of leak and complete pertinent part(s) of Part XVI on reverse side.

1 ☐ CORROSION - PART XVIIA 2 ☐ DAMAGE BY OUTSIDE FORCE - PART XVIIB 3 ☐ CONSTRUCTION DEFECT OR MATERIAL FAILURE - PART XVIIC 4 ☐ OTHER (Describe the incident in detail in Part XVIID)

B. To answer questions with answer boxes, choose the appropriate number(s) of the listed answer(s) and enter in the box(es) provided in the lower right corner of the item.

C. Enter numbers in boxes on the right, inserting zeroes as necessary to fill all boxes. EXAMPLE: 0 0 3 6

D. If an item does not apply, enter "NA" in all appropriate box(es) or space(s).

E. If requested information is unknown, enter "UNK" in appropriate box(es) or space(s). A supplemental report should be submitted as soon as unknown information is obtained.

F. If additional information is needed to complete this form telephone the Department of Transportation, Materials Transportation Bureau, Area Code 202, 426-3046, Monday through Friday, 8:30 A.M. to 5:00 P.M., Eastern Time.

G. This leak must be reported within 20 days after detection.

PART III — OPERATOR INFORMATION (Show Principal Company Office)

A. NAME OF OPERATOR — DRAFT

B. OPERATOR CODE (1 2 3 4 5)

C. NUMBER & STREET

D. CITY

E. COUNTY

F. STATE

G. ZIP CODE

PART IV — FOR MATERIALS TRANSPORTATION BUREAU USE ONLY

A. LOCATION CODE — STATE (1 2) CITY (3 4 5) COUNTY (6 7 8)

B. MTB CODE (1 2 3 4 5 6 7 8 9)

PART V — REPORT DATA

A. REASON FOR REPORT

1 ☐ FATALITY OR INJURY REQUIRING HOSPITALIZATION
2 ☐ IGNITION OF GAS
3 ☐ PROPERTY DAMAGE $5,000 OR MORE
4 ☐ WHEN TAKING SEGMENT OF PIPELINE OUT OF SERVICE
5 ☐ OPERATOR JUDGEMENT
6 ☐ LEAK REQUIRING EMERGENCY ACTION

B. PREVIOUSLY REPORTED BY TELEPHONE 1 ☐ YES 2 ☐ NO

C. LEAK ON FEDERAL LANDS

1 ☐ "X" IF LEAK OCCURRED ON FEDERAL LANDS ("Federal Lands" means all lands owned by the United States except, lands in the National Park System, lands held in trust for an Indian or Indian Tribe, and lands on the Outer Continental Shelf.)

2. NAME FEDERAL AGENCY (IES) THAT GRANTED PIPELINE RIGHT-OF-WAY:

PART VI — LOCATION AND TIME OF LEAK

A. ONSHORE

1. NUMBER & STREET
2. CITY
3. COUNTY
4. STATE
5. ZIP CODE

B. OFFSHORE

1. BLOCK
2. AREA DESIGNATION
3. STATE OF → (Two-letter abbreviation) ☐ AND/OR ☐ OUTER CONTINENTAL SHELF
4. MILE POST OR SURVEY STATION NUMBER

Form RSPA-2 Page 2

C. TIME

1. TIME OF DETECTION (For Hour use 24-hour clock) — MONTH (1 2) DAY (3 4) HOUR (5 6 7 8)

2. TIME BETWEEN DETECTION AND WHEN AREA WAS MADE SAFE (i.e., under control) — HOURS (1 2) MINUTES (3 4)

D. PRESSURE

1. ESTIMATED PRESSURE AT POINT AT TIME OF LEAK — PSIG (1 2 3 4)

2. MAXIMUM ALLOWABLE OPERATING PRESSURE — PSIG (1 2 3 4)

PART VII WHERE LEAK OCCURRED

A. SYSTEM
1. TRANSMISSION
2. GATHERING
3. TRANSMISSION LINE OF DISTRIBUTION SYSTEM

PART VIII MATERIAL OF PART WHICH LEAKED

A. TYPE
1. STEEL
2. COPPER
3. CAST IRON
4. DUCTILE IRON
5. POLYETHYLENE
6. POLYVINYL CHLORIDE (PVC)
7. THERMOSETTING PLASTIC
8. SEALANT OR GASKET
9. OTHER (Specify) _____

PART IX EXTENT OF DAMAGE FROM ESCAPE OF GAS

A. EXPLOSION OCCURED? 1. YES 2. NO

B. GAS IGNITED? 1. YES 2. NO

C. INCIDENT INDUCED ADDTIONAL EXPLOSIONS OR FIRES? 1. YES 2. NO

D. TOTAL ESTIMATED COST TO THE OPERATOR FOR REPAIR OR REPLACEMENT OF THE SEGMENT OF THE SYSTEM THAT FAILED (Include material, equipment, gas lost, labor, supervision, and overhead.) → $

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PART X ORIGIN OF LEAK

A. PIPE
1. BODY

B. SEAM
2. SPIRAL OR LONGITUDINAL

C. JOINT
3. GAS GIRTH WELD
4. ARC GIRTH WELD
5. PLASTIC-FUSION, ADHESIVE, OR SOLVENT
6. MECHANICAL
7. BELL & SPIGOT
8. THREADED
9. OTHER (Specify) _____

D. COMPONENT
10. FITTING (Includes nipples, manifolds, sleeves, ells, tees, etc.)
11. VALVE
12. TAP FITTING
13. REGULATOR
14. METER
15. OTHER (Specify) _____

E. YEAR OF INSTALLATION (Enter last two figures of year)

PART XI PART OF SYSTEM WHICH LEAKED

A. PART
1. PIPELINE
2. COMPRESSOR STATION
3. DEHYDRATION PLANT
4. REGULATOR STATION
5. METER STATION
6. OTHER (Specify) _____

B. YEAR OF INSTALLATION (Enter last two figures of year)

PART XII PIPE DATA

A. DESCRIPTION
1. NOMINAL DIAMETER IN INCHES (Round off to two figures, rounded off to next whole lower figure)
2. NOMINAL WALL THICKNESS IN INCHES (Round off to three figures to right of decimal point)
3. SPECIFICATIONS →
4. GRADE OR SMYS →

B. METHOD OF MANUFACTURE
1. STEEL
1. SEAMLESS
2. ELECTRIC-RESISTANCE WELDED
3. SUBMERGED ARC WELDED
4. BUTT WELDED (Includes Electric-Fusion)
5. FURNACE-LAP WELDED
6. ELECTRIC FLASH WELDED
2. CAST IRON
1. CENTRIFUGALLY CAST
2. PIT CAST
3. PLASTIC
1. POLYETHYLENE
2. POLYVINYL CHLORIDE (PVC)
3. THERMOSETTING
4. OTHER (Specify)
4. OTHER PIPE MATERIAL (Specify)

PART XIII PERSONAL INJURIES RESULTING FROM ESCAPE OF GAS

* Injured means non-fatal injuries requiring hospitalization.

	NUMBER OF FATALITIES	NUMBER OF PERSONS INJURED *
A. EMPLOYEE(S) OF OPERATOR	1.	2.
B. EMPLOYEE(S) OF OPERATOR'S CONTRACTOR	1.	2.
C. EMPLOYEE(S) of/or OUTSIDE PARTY CAUSING DAMAGES	1.	2.
D. MEMBER(S) OF THE PUBLIC	1.	2.

PART XIV LEAK WITH RUPTURE

A. SHEAR FRACTURE IN FEET

B. CLEAVAGE FRACTURE IN FEET

C. IS A METALLURGICAL ANALYSIS PLANNED? 1. YES 2. NO

PART XV TYPE OF REPAIR

A. PIPE
1. WELD OVER SLEEVE
2. PATCH WELDED
3. CLAMP
4. REPLACE PIPE
5. OTHER REPAIR OR DISPOSITION (Specify) _____

B. COMPONENT
1. REPLACED
2. RECONDITIONED
3. OTHER (Specify)

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PART XVI ENVIRONMENTAL DESCRIPTION

A. PREDOMINANT TYPE OF AREA: 1. COMMERCIAL 3. RESIDENTIAL 2. INDUSTRIAL 4. RURAL

D. DEPTH OF COVER (Number of feet measured below normal grade or natural bottom, if underwater.)
1. 1 to 12 3. 19 to 24 5. 37 to 48
2. 13 to 18 4. 25 to 36 6. OVER 48

B. CLASS LOCATION * AT TIME OF CONSTRUCTION CLASS: 1, 2, 3, 4

C. CLASS LOCATION * AT TIME OF INCIDENT CLASS: 1, 2, 3, 4

* See Sec. 192.5, 49 CFR, Part 192 for definition.

E. GROUND COMPOSITION AT PIPE DEPTH
1. SOIL 9. OTHER (Specify) _____
2. ROCK

F. ESTIMATED SOIL TEMPERATURE AT POINT OF LEAK.... °F

PART XVII CAUSE OF LEAK

A. CORROSION

1. GENERAL CORROSION INFORMATION

a. TYPE CORROSION
(1). INTERNAL (2). EXTERNAL

b. DESCRIPTION
(1). PITTING (2). GENERAL (3). BOTH

c. CAUSE
(1). GALVANIC
(2). BACTERIAL
(3). STRAY CURRENT
(4). OTHER (Specify) _____

2. EXTERNAL PIPE COATING INFORMATION

a. COATING
(1). BARE (2). COATED AND/OR WRAPPED

b. YEAR COATING INSTALLED
(Enter last two figures of year)

c. SITE OF COATING APPLICATION
(1). MILL (2). YARD (3). FIELD (4). UNKNOWN

d. MATERIAL
(1). COAL TAR
(2). ASPHALT
(3). WAX
(4). PREFABRICATED FILM
(5). THIN FILM
(6). OTHER (Specify) _____

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3. COATING FAILURE INFORMATION

a. CAUSE
(1). DAMAGE
(2). DEFECTIVE MATERIAL
(3). DEFECTIVE APPLICATION
(4). DECOMPOSITION
(5). OTHER (Specify) _____

4. CATHODIC PROTECTION INFORMATION

a. PROTECTED?
(1). YES (2). NO →

b. YEAR PROTECTION STARTED
(Enter last two figures of year)

c. TYPE
(1). IMPRESSED (3). OTHER (Specify) _____
(2). GALVANIC

d. pH OF UNDISTURBED SOIL NEAREST THE LEAK, IF NOT UNDERWATER (One decimal)

5. SOIL RESISTIVITY

a. LATEST SOIL RESISTIVITY MEASUREMENT IN AREA OF LEAK (ohm-cm)

b. DATE OF MEASUREMENT MONTH DAY YEAR

c. DISTANCE FROM LEAK (feet) →

6. PIPE-TO-SOIL POTENTIAL

a. LATEST PIPE-TO-SOIL POTENTIAL MEASUREMENT IN UNDISTURBED SOIL AT NEAREST POINTS ON EACH SIDE OF THE LEAK WITHIN THE SAME ELECTRICALLY CONDUCTIVE SEGMENT.
_____ (millivolts) AND _____ (millivolts)

b. DISTANCE FROM LEAK TO EACH MEASUREMENT POINT
_____ (feet) AND _____ (feet)

c. DATE OF MEASUREMENT MONTH DAY YEAR

B. DAMAGE CAUSED BY OUTSIDE FORCES

1. LEAK

a. PRIMARY CAUSE
(1). CONSTRUCTION EQUIPMENT AND BLASTING BY DIRECT CONTACT OR BY EARTH MOVEMENT INDUCED BY ACTION OF MAN.
(2). OTHER EQUIPMENT OR VEHICLE(S) (Includes hand tools, trucks, automobiles, motorcycles, snowmobiles, etc.)
(3). NATURAL CAUSES (Includes landslides, subsidence, earthquake, lightning, etc.)
(4). WILLFUL. (Includes vandalism, sabotage, etc.)
(5). HOUSE FIRE RESULTING IN GAS FIRE.

2. DAMAGE BY EQUIPMENT OF OUTSIDE PARTY

a. WAS OUTSIDE FORCE DAMAGE CAUSED BY DIRECT CONTACT OF EQUIPMENT OR BLASTING? (1) YES (2) NO

b. WAS OUTSIDE FORCE DAMAGE INDUCED BY EARTH MOVEMENT? (1) YES (2) NO

c. DID OPERATOR GET PRIOR NOTIFICATION THAT THE EQUIPMENT WOULD BE USED IN THE AREA? (1) YES (2) NO

d. DATE OF PRIOR NOTIFICATION IF RECEIVED BY OPERATOR MONTH DAY YEAR

g. WHAT TYPE OF MARKING OR IDENTIFICATION WAS USED TO ADVISE OUTSIDE PARTY OF LOCATION OF PIPE?
(1). PERMANENT MARKERS
(2). MAP FURNISHED
(3). TEMPORARY STAKES
(4). PAINT
(5). EXCAVATION
(6). VERBAL INSTRUCTIONS
(7). ON SITE OBSERVATION
(8). OTHER (Specify) _____

Form RSPA-2 Page 4

e. WAS PIPELINE MARKED OR IDENTIFIED? (1) YES (2) NO

h. DID OUTSIDE PARTY EXPOSE PIPELINE BY HAND PRIOR TO DAMAGE? (1) YES (2) NO

f. NUMBER OF HOURS IN WHICH NOTIFICATION WAS RECEIVED PRIOR TO START OF EXCAVATION. (1). 0-12 (2) 13-24 (3). 25-48 (4). OVER 48

i. DOES STATE STATUTE OR LOCAL ORDINANCE REQUIRE THE OUTSIDE PARTY TO NOTIFY THE OPERATOR? (1) YES (2) NO

B. DAMAGE BY NATURAL CAUSES

a. PRIMARY CAUSE (1). SUBSIDENCE (2). EARTHQUAKE (3). LANDSLIDE (4). FLOOD (5). LIGHTING (6). OTHER (Specify) _____

C. CONSTRUCTION DEFECT OR MATERIAL FAILURE

1. LEAK

a. PRIMARY CAUSE (1). CONSTRUCTION DEFECT (2). MATERIAL FAILURE (3). IMPROPER INSTALLATION (4). INAPPROPRIATE COMPONENT

2. MATERIAL INFORMATION

a. NAME OF MANUFACTURER

b. NOMINAL SIZE

c. YEAR MANUFACTURED (Enter last two figures of year)

d. MANUFACTURER'S PRESSURE RATING PSIG

e. MANUFACTURER'S CODE OR SPECIFICATIONS

3. MOST RECENT TEST DATA PRIOR TO LEAK

a. TEST DATA FOR (1). INITIAL POST-CONSTRUCTION TEST (2). SUBSEQUENT TEST (3). NOT TESTED (4). UNKNOWN

b. TEST MEDIUM (1). AIR (2). WATER (3). GAS (4). OTHER (Specify) _____

c. DATE OF TEST MONTH DAY YEAR

d. MINIMUM TEST PRESSURE PSIG

e. TIME HELD AT TEST PRESSURE HOURS

f. ESTIMATED TEST PRESSURE AT POINT OF LEAK PSIG

g. QUALIFIED MAOP OF FACILITY

h. IF NOT TESTED, DESCRIBE BASIS FOR MAOP QUALIFICATION

D. OTHER

DESCRIPTION OF INCIDENT WHEN BOX 4, PART IIA2, IS "X'ed". (If more space is needed, continue on a separate sheet, identify with name of operator, and attach to this sheet.)

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PART XVIII ADDITIONAL DATA

A. FOR CONTINUATION OF EXPLANATION OF ITEMS ABOVE (If more space is needed, continue on a separate sheet, identify with name of operator, and attach to this sheet.)

REPORTING OFFICIAL

B. CERTIFICATION: I certify that all the statements and answers given on this form and all attachments hereto are complete, correct, and true to the best of my knowledge.

TYPED OR PRINTED NAME AND TITLE	SIGNATURE	TELEPHONE NUMBER (Include Area Code)

Form RSPA-3 (xx-78)
SUPERSEDES FORM DOT F 7100.1-1

NOTICE: This report is required by 49 CFR Part 191. Failure to report can result in a civil penalty not to exceed $1,000 for each violation for each day that such violation persists, except that the maximum civil penalty shall not exceed $200,000 as provided in 49 U.S.C. 1678

Form Approved: OMB No. 34-RXXXX

DEPARTMENT OF TRANSPORTATION
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION

ANNUAL REPORT FOR CALENDAR YEAR 19___
GAS PIPELINE DISTRIBUTION SYSTEM

GENERAL INSTRUCTIONS (Please read before completing form)

1. Submit one completed copy of this form for the preceding calendar year to the addressee given in 49 CFR, Part 191, Section 191.7 so that it is received by the Materials Transportation Bureau not later than February 15th. Be sure that all applicable parts (Parts I through XII) are completed and report is signed. *Operators with 2,500 services or more should complete all parts. Operators with less than 2,500 services should complete ONLY the items printed in BLUE INK.*
2. Each operator may submit either a separate report for each State in which its pipeline facilities are located or a consolidated multi-State report. The address of the operator should be that address where information regarding THIS REPORT can be obtained.
3. When necessary data are not available estimates may be reported and so noted (Est.). Describe the method used to determine estimates in Item A, Part XII. Avoid use of "Unknown".
4. If a part does not apply, enter "N/A"., Each item in an applicable part should be completed. All figures are to be reported as whole numbers. DO NOT USE DECIMALS OR FRACTIONS. Decimals or fractions should be rounded to the nearest whole number. If a given entry figure contains more digits than indicated by the number of spaces, place the numbers in the block regardless of the number of spaces.
5. Specific instructions for completing this form are contained in Form RSPA-3A.
6. If additional information is needed to complete this form telephone the Department of Transportation, Materials Transportation Bureau, Area Code 202, 426-3046, Monday through Friday, 8:30 A.M. to 5:00 P.M., Eastern Time.

PART I OPERATOR INFORMATION (Show Principal Company Office)

A. NAME OF OPERATOR	B. OPERATOR CODE (1 2 3 4 5)	C. NUMBER & STREET	
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D. CITY	E. COUNTY	F. STATE	G. ZIP CODE
H. LIST STATES IN WHICH SYSTEM IS LOCATED (Two-letter abbreviation)	I. IF DISTRIBUTION SYSTEM IS LPG OR MASTER METER SYSTEM (Check one box) 1 ☐ LIQUIFIED PETROLEUM GAS SYSTEM 2 ☐ MASTER METER SYSTEM		

PART II FOR MATERIALS TRANSPORTATION BUREAU USE ONLY

A. LOCATION CODE	STATE (1 2)	CITY (3 4 5)	COUNTY (6 7 8)	B. MTB CODE (1 2 3 4 5 6 7 8 9)	C. OPERATOR CLASSIFICATION (1 2 3 4)

PART III MAINS AND SERVICES ADDED, RETIRED, OR REPLACED DURING YEAR

A. DESCRIPTION OF SYSTEM	ADDED: NEW INSTALLATION (a)	ADDED: AQUISITION (b)	ADDED: REINSTATEMENT (c)	RETIRED (Not replaced) (d)	REPLACED (e)	B. ESTIMATE AVERAGE LENGTH OF A SERVICE LINE
1. MILES OF MAINS						
2. NUMBER OF SERVICES						FEET

PART IV MILES OF MAINS AND NUMBER OF SERVICES IN SYSTEM AT END OF YEAR BY DECADE

PIPE		DECADE: PRIOR TO 1930 (a)	1930 THRU 1939 (b)	1940 THRU 1949 (c)	1950 THRU 1959 (d)	1960 THRU 1969 (e)	1/1/70 TO 12/31 OF REPORTING YEAR (f)	SYSTEM TOTAL (g)
A. TOTAL INSTALLED BY ORIGINAL INSTALLATION DATE	1. MAINS							
	2. SERVICES							
B. COATED AND NOT CATHODICALLY PROTECTED METALLIC PIPE BY COATING DATE	1. MAINS							
	2. SERVICES							

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C. BARE AND NOT CATHODICALLY PROTECTED METALLIC PIPE BY INSTALLATION DATE	1. MAINS								
	2. SERVICES								
D. COATED AND CATHODICALLY PROTECTED METALLIC PIPE BY CATHODIC PROTECTION DATE	1. MAINS								
	2. SERVICES								
E. BARE AND CATHODICALLY PROTECTED METALLIC PIPE BY CATHODIC PROTECTION DATE	1. MAINS								
	2. SERVICES								
F. PLASTIC PIPE BY ORIGINAL INSTALLATION DATE	1. MAINS								
	2. SERVICES								

PART V NUMBER OF LEAKS REPAIRED IN MAINS AND SERVICES DURING YEAR BY PART AND BY CAUSE

PART WHICH LEAKED			CAUSE OF LEAK								
			CORROSION (1)	OUTSIDE FORCE DAMAGE: *1/ (2)	OUTSIDE FORCE DAMAGE: NATURAL CAUSES (3)	CONSTRUCTION DEFECT (4)	MATERIAL FAILURE (5)	**1/ (6)	OTHER (7)	SYSTEM TOTAL (8)
A. BODY OF PIPE	1. STEEL	a. MAINS								
		b. SERVICES								
	2. COPPER	a. MAINS								
		b. SERVICES								
	3. CAST IRON	a. MAINS								
		b. SERVICES								
	4. DUCTILE IRON	a. MAINS								
		b. SERVICES								
	5. POLYETHYLENE	a. MAINS								
		b. SERVICES								
	6. POLYVINYL CHLORIDE (PVC)	a. MAINS								
		b. SERVICES								
	7. THERMOSETTING PLASTIC	a. MAINS								
		b. SERVICES								
	8. OTHER PLASTIC (Specify)	a. MAINS								
		b. SERVICES								
	9. OTHER MATERIAL (Specify)	a. MAINS								
		b. SERVICES								
B. SEAM	1. SPIRAL OR LONGITUDINAL	a. MAINS								
		b. SERVICES								
C. JOINT	1. GAS GIRTH WELD	a. MAINS								
		b. SERVICES								
	2. ARC GIRTH WELD	a. MAINS								
		b. SERVICES								
	3. PLASTIC FUSION, ADHESIVE OR SOLVENT	a. MAINS								
		b. SERVICES								
	4. MECHANICAL JOINT	a. MAINS								
		b. SERVICES								
	5. BELL AND SPIGOT	a. MAINS								
		b. SERVICES								
	6. THREADED JOINT	a. MAINS								
		b. SERVICES								
D. COMPONENT	1. FITTING	a. MAINS								
		b. SERVICES								
	2. VALVE	a. MAINS								
		b. SERVICES								
	3. TAP FITTING	a. MAINS								
		b. SERVICES								
	4. REGULATOR	a. MAINS								
		b. SERVICES								
	5. METER	a. MAINS								
		b. SERVICES								
	6. OTHER (Specify)	a. MAINS								
		b. SERVICES								
E. SYSTEM TOTAL		a. MAINS								
		b. SERVICES								

*1/ Construction equipment and blasting
**1/ Component wear/deterioration

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PART VI	NUMBER OF LEAKS REPAIRED IN MAINS AND SERVICES DURING YEAR BY CAUSE AND DECADE OF INSTALLATION								
CAUSE OF LEAK	1. MAINS 2. SERVICES	DECADE: PRIOR TO 1930 (a)	1930 THRU 1939 (b)	1940 THRU 1949 (c)	1950 THRU 1959 (d)	1960 THRU 1969 (e)	1/1/70 TO 12/31 OF REPORTING YEAR (f)	SYSTEM TOTAL (g)	TOTAL NO. OF LEAKS ~~LISTED~~ WHICH OCCURRED ON FEDERAL LANDS (h)
A. CORROSION	1. M								
	2. S								
B. CONSTRUCTION EQUIPMENT & BLASTING (Outside Force Damage)	1. M								
	2. S								
C. NATURAL CAUSES (Outside Force Damage)	1. M								
	2. S								
D. CONSTRUCTION DEFECT	1. M								
	2. S								
E. MATERIAL FAILURE	1. M								
	2. S								
F. COMPONENT WEAR/ DETERIORATION	1. M								
	2. S								
G. OTHER (Specify)	1. M								
	2. S								
H. SYSTEM TOTAL	1. M								
	2. S								
I. GRAND TOTAL NUMBER OF LEAKS ON FEDERAL LANDS	1. MAINS →								
	2. SERVICES →								

PART VII	MILES OF MAINS IN SYSTEM AT END OF YEAR BY MATERIAL AND NOMINAL SIZE						
MATERIAL	NOMINAL DIAMETER: 1" OR LESS (1)	OVER 1" THRU 2" (2)	OVER 2" THRU 4" (3)	OVER 4" THRU 6" (4)	8" (5)	OVER 8" (6)	SYSTEM TOTAL (7)
A. STEEL							
B. COPPER							
C. CAST IRON							
D. DUCTILE IRON							
E. POLYETHYLENE							
F. POLYVINYL CHLORIDE (PVC)							
G. THERMOSETTING PLASTIC							
H. OTHER PLASTIC (Specify)							
I. OTHER MATERIAL (Specify)							
J. SYSTEM TOTAL							

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PART VIII	NUMBER OF SERVICES IN SYSTEM AT END OF YEAR BY MATERIAL AND NOMINAL SIZE				
MATERIAL	NOMINAL DIAMETER: ½" OR LESS (1)	OVER ½" THRU 1" (2)	OVER 1" THRU 2" (3)	OVER 2" (4)	SYSTEM TOTAL (5)
A. STEEL					
B. COPPER					
C. CAST IRON					
D. DUCTILE IRON					

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E. POLYETHYLENE					
F. POLYVINYL CHLORIDE (PVC)					
G. THERMOSETTING PLASTIC					
H. OTHER PLASTIC (Specify)					
I. OTHER MATERIAL (Specify)					
J. SYSTEM TOTAL					

PART IX	SYSTEM LEAKS SCHEDULED FOR REPAIR
TOTAL NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR. (As indicated from a surface exam).	

PART X	PERCENT OF UNACCOUNTED FOR GAS
UNACCOUNTED FOR GAS AS A PERCENT OF TOTAL INPUT FOR YEAR ENDING JUNE 30 OF REPORTING YEAR	%

PART XI	TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR			
* Injured means non-fatal injuries requiring hospitalization.	NUMBER OF FATALITIES	NUMBER OF PERSONS INJURED *	E. NUMBER OF FIRES AND EXPLOSIONS	
A. EMPLOYEE(S) OF OPERATOR	1.	2.	1. FIRES CAUSED DIRECTLY OR INDIRECTLY BY LEAKS	NO.
B. EMPLOYEE(S) OF OPERATOR'S CONTRACTOR	1.	2.	2. EXPLOSIONS CAUSED DIRECTLY OR INDIRECTLY BY LEAKS	NO.
C. EMPLOYEE(S) OF/OR OUTSIDE PARTY CAUSING DAMAGE	1.	2.	F. SYSTEM DAMAGE AND REPAIR COSTS	
D. MEMBER(S) OF THE PUBLIC	1.	2.	1. ESTIMATED COST FOR PROPERTY DAMAGE AND REPAIR OF LEAKS TO OPERATOR	$
			2. COST OF SETTLEMENT FOR ALL CLAIMS DURING YEAR FOR PROPERTY DAMAGE AND PERSONAL INJURIES	$

PART XII	ADDITIONAL DATA
A. FOR CONTINUATION OF EXPLANATION OF ITEMS ABOVE. (If more space is needed, continue on a separate sheet, identify with name of operator, and attach to this sheet.)	

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REPORTING OFFICIAL			
B. CERTIFICATION: I certify that all the statements and answers given on this form and all attachments hereto are complete, correct, and true to the best of my knowledge.			
TYPED OR PRINTED NAME AND TITLE	SIGNATURE	TELEPHONE NUMBER (Include Area Code)	REPORTING DATE

FORM RSPA-3A

INSTRUCTIONS FOR COMPLETING FORM RSPA-3 ANNUAL REPORT FOR GAS PIPELINE DISTRIBUTION SYSTEM

GENERAL

Who Must Report. Each operator of a gas pipeline distribution system must complete an annual report Form RSPA-3, covering all operations. Each operator that is an independent subsidiary of another operator must file a separate report.

Reporting Period and Filing Date. Form RSPA-3 must be filed annually by February 15 for operations conducted during the preceding calendar year (January 1 - December 31).

Where to File Report. In those States where the regulations of a State agency with jurisdiction over the operator require the filing of an annual report and provide for transmittal of the report to the Materials Transportation Bureau not later than February 15, operators may file Form RSPA-3 with the State agency. In all other cases, reports must be submitted by February 15 to the Director, Materials Transportation Bureau, 2100 Second Street, S.W., Washington, D.C. 20590.

Data Entries. Fill in each blank with the requested information. Operators with less than 2,500 services should fill in only the blanks printed in BLUE INK. Record figures by rounding off to the nearest whole number (never less than 1). DO NOT RECORD DECIMALS OR FRACTIONS. If requested information is not available, give a best estimate.

Definitions. Definitions of some of the terms used in this form or Form RSPA-3, such as "system," "main," "service line," "pipe," etc., are in Section 191.3 or Section 192.3 of Title 49 of the Code of Federal Regulations.

For Further Information. If you need further information, write or call the Materials Transportation Bureau, U.S. Department of Transportation, Washington, D.C. 20590, telephone number (202) 426-3046. (NOTE: The number (202) 426-0700 is assigned solely for receiving telephonic notice of leaks required by 49 CFR 191.5.)

SPECIFIC INSTRUCTIONS

PART I - OPERATOR INFORMATION

The address of the operator should be that address where information regarding this report can be obtained. The operator code is a number assigned by MTB to every operator filing an annual report. The same number should be used by operators for the filing of all subsequent annual reports.

This part also pertains to liquefied petroleum gas and master meter systems. "Liquefied Petroleum Gas Systems" are distribution systems that store and transport highly volatile hydrocarbons such as butane, propane, etc. The hydrocarbon is stored in a liquid state at normal ambient

temperatures by pressurization and delivered by pipeline to the ultimate consumer by controlled vaporization. "Master Meter Systems" are gas distributon systems in a project where the owner of the project is sold gas by a public utility through a "master meter" and the gas is distributed through mains and services to the ultimate consumer of the gas who may or may not be individually metered.

PART II - FOR MATERIALS TRANSPORTATION BUREAU USE ONLY

Do not make any data entries in this part.

PART III - MAINS AND SERVICES ADDED, RETIRED, OR REPLACED DURING YEAR

(a) New Installation - includes only additional pipelines installed. Does not include replacement of existing pipelines.

(b) Acquisition - includes existing pipelines that are purchased from other pipeline operators or converted from other pipeline service.

(c) Reinstatement - means the mileage of pipe in mains or the number of services which had been retired or abandoned prior to the reporting year and put back in use in the reporting year.

(d) Retired (not replaced) - means the mileage of pipe in mains or number of services which were removed from operation during the reporting year.

(e) Replaced - includes the total number of services or miles of pipe in mains replacing retired facilities either by direct burial or by insertion.

PART IV - MILES OF MAINS AND NUMBER OF SERVICES IN SYSTEM AT END OF YEAR BY DECADE

Part IV pertains to the mileage of mains or number of services in operation at the end of the reporting year by the decade in which the mains or services were installed. The first two blanks in Column (g) corresponding to the line titled "Total Installed by Original Installation Date" should give totals of lines B, C, D, E, and F of this part. Bare and not cathodically protected metallic pipe and plastic pipe should be listed by the decade in which they were installed. Coated and not cathodically protected metallic pipe should be listed by the decade in which they were coated. Coated and bare cathodically protected metallic pipe should be listed by the decade in which they were cathodically protected. Plastic pipe should not be included in the coated and/or cathodic protected miles of mains or number of services; however, it should be included on the last row of this part for "Plastic Pipe by Original Installation Date." When the decade in which the pipe was installed, coated, or cathodically protected is not known, estimate the most likely decade.

"Coated" pipes are metallic pipes coated with any hot or cold applied coating or wrapper that substantially reduces deterioration of the pipe because of corrosion to less than it would be if the line were bare. "Bare" pipes are metallic pipes without any type of hot or cold applied coating or wrapper or with a coating or wrapper that is so ineffective that it does not appreciably reduce the deterioration of the pipe because of corrosion.

PART V - NUMBER OF LEAKS REPAIRED IN MAINS AND SERVICES DURING YEAR BY PART AND BY CAUSE

Data entries for Part V should include all those leaks repaired during the reporting year.

Cause of leaks are classified as follows:

(1) A "Corrosion" leak is a leak resulting from the deterioration of a pipeline caused by galvanic, bacterial, or stray current action.

(2) A "Construction Equipment & Blasting" leak is a leak resulting from contact or other force on the pipeline facility from earth-moving equipment, damage by blasting, or earth movement induced by human actions.

(3) A "Natural Causes" leak is a leak caused by forces of nature acting upon the pipeline, such as landslide, subsidence, earthquake, floods, lightning, etc.

(4) A "Construction Defect" leak is a leak caused by failure of original sound material due to an outside force being applied during the construction of the pipeline which caused a dent, gouge, excessive stress, or other defect which resulted in subsequent failure. This category also includes wrinkle bends and faulty field welds.

(5) A "Material Failure" leak is a leak caused by a defect within the material of the pipe or component or within a weld made at the time of manufacture of the pipe or component.

(6) A "Component Wear/Deterioration" leak is a leak on facility parts caused by wear or deterioration, because of age, use, etc.

(7) An "Other" leak is a leak resulting from any other cause of leak, such as pipeline operating malfunction, or operator error, than the causes listed above. "Other" also includes leaks resulting from damage by vehicles, such as trucks, automobiles, motorcycles, snowmobiles, and willful damage caused deliberately or intentionally, such as vandalism, sabotage, etc.

The "Other Plastic" or "Other Material" rows include all other types of materials which are not listed in this form. In order to specify in detail the "Other Plastic" or "Other Material," write in Part XII, "Additional Data," the material type which has the greatest number of leaks repaired during year, identifying that such information is a continuation of Part V.

PART VI - NUMBER OF LEAKS REPAIRED IN MAINS AND IN SERVICES DURING YEAR BY CAUSE AND BY DECADE OF INSTALLATION

Data entries for Part VI include all those repaired leaks indicated in Part V but grouped according to the decade of the original installation of the pipeline involved. The sum of the column totals must equal the sum of the row totals. Notice that the last column (h) and the last row (I) of this Part, which requests, by Cause of Leak, information about the number of leaks on Federal lands, are independent from the rest of Part VI. The data entries requested under column (h) should be taken from the information listed in column (g).

PARTS VII & VIII - MILES OF MAINS AND NUMBER OF SERVICES IN SYSTEM AT END OF YEAR BY MATERIAL AND BY NOMINAL SIZE

The Other Plastic and Other Material rows include all other types of plastic or material which are not named

in this form. In order to specify in detail the Other Plastic or Other Material, write in Part XII, "Additional Data" the material type which has the greatest mileage of mains or number of services of all other plastics or materials, identifying that such information is the continuation of Part VII or Part VIII.

PART IX - SYSTEM LEAKS SCHEDULED FOR REPAIR

Data entries for Part IX are the total number of known system leaks indicated by a ground surface or underwater examination of the pipeline system and which are scheduled for repair (but not yet repaired) at the end of the reporting year.

PART X - UNACCOUNTED FOR GAS

"Unaccounted for Gas" is expressed as a percent of the total input as follows:

Percent Unaccounted for Gas =

$$\frac{\text{(Total Gas Input) - (output)} \times 100}{\text{Input}}$$

All gas volumes must be stated in 1,000's of cubic feet (MCF).

PART XI - TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR

"Injuries" mean nonfatal injuries requiring hospitalization. "Members of the Public" are persons who are not employees.

Estimated cost for property damage and repair of leaks to operator include all "out-of-pocket" costs incurred in repairing the leak or damage, such as direct labor costs, material costs, and charges for equipment uses, gas lost, supervision, overhead, etc.

PART XII - ADDITIONAL DATA AND REPORTING OFFICIAL

Explain in "Additional Data" any large decrease or increase in the data reported previously such as the purchase or sale of facilities. State the name and title of the pipeline reporting official responsible for compiling and filing the annual report along with the telephone number, including the Area Code, at which this official can be reached, and the date the annual report is completed.

Form RSPA-4 (11-78)
SUPERSEDES FORM DOT F 7100.2-1

NOTICE: This report is required by 49 CFR Part 191. Failure to report can result in a civil penalty not to exceed $1,000 for each violation for each day that such violation persists, except that the maximum civil penalty shall not exceed $100,000 as provided in 49 U.S.C. 1678

Form Approved: OMB No. 04-RXXXX

DEPARTMENT OF TRANSPORTATION
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION

ANNUAL REPORT FOR CALENDAR YEAR 19____
GAS PIPELINE TRANSMISSION & GATHERING SYSTEMS

GENERAL INSTRUCTIONS (Please read before completing form)

1. Submit one completed copy of this form for the preceding calendar year to the addressee given in 49 CFR, Part 191, Section 191.7 so that it is received by the Materials Transportation Bureau not later than February 15th. Be sure that all applicable parts (Parts I through X) are completed and report is signed.
2. a. Each operator of a gathering system in a nonrural area and each operator of a transmission system may submit either a separate report for each state in which its pipeline facilities are located or a consolidated multi-State report.
   b. Each operator having offshore operations shall submit a separate report for the Outer Continental Shelf (OCS).
   c. The address of the operator should be that address where information regarding THIS REPORT can be obtained.
3. When necessary data are not available estimates may be reported and so noted (Est.). Describe the method used to determine estimates in Item A, Part X. Avoid use of "Unknown" if possible.
4. If a part does not apply, enter "N/A". Each item in an applicable part should be completed. All figures are to be reported as whole numbers. DO NOT USE DECIMALS OR FRACTIONS. Decimals or fractions should be rounded to the nearest whole number. If a given entry figure contains more digits than indicated by the number of spaces, place the numbers in the block regardless of the number of spaces.
5. Specific instructions for completing this form are contained in Form RSPA-11.
6. If additional information is needed to complete this form telephone the Department of Transportation, Materials Transportation Bureau (MTB), Area Code 202, 426-3046, Monday through Friday, 8:30 A.M. to 5:00 P.M., Eastern Time.

PART I — OPERATOR INFORMATION (Show Principal Company Office)

A. NAME OF OPERATOR	B. OPERATOR CODE (1 2 3 4 5)	C. NUMBER & STREET	
DRAFT			
D. CITY	E. COUNTY	F. STATE	G. ZIP CODE

H. LIST STATES IN WHICH SYSTEM IS LOCATED (Two-letter abbreviation)

PART II — FOR MATERIALS TRANSPORTATION BUREAU USE ONLY

A. LOCATION CODE — STATE (1 2) CITY (3 4 5) COUNTY (6 7 8)

B. MTB CODE (1 2 3 4 5 6 7 8 9)

PART III — TRANSMISSION/GATHERING SYSTEMS ADDED, RETIRED, OR REPLACED DURING YEAR

DESCRIPTION OF SYSTEM		ADDED: NEW INSTALLATION (a)	ADDED: AQUISITION (b)	ADDED: REINSTATEMENT (c)	RETIRED (Not replaced) (d)	REPLACED (e)
A. MILES OF TRANSMISSION	1. ONSHORE					
	2. OFFSHORE					
B. MILES OF GATHERING	1. ONSHORE					
	2. OFFSHORE					

PART IV — MILES OF PIPELINE IN SYSTEM AT END OF YEAR BY DECADE

PIPE		DECADE: PRIOR TO 1950 (a)	1950 THRU 1959 (b)	1960 THRU 1969 (c)	1/1/70 TO 12/31 OF REPORTING YEAR (d)	SYSTEM TOTAL (e)
A. TOTAL INSTALLED BY ORIGINAL INSTALLATION DATE	1. TRANSMISSION					
	2. GATHERING					
B. COATED AND NOT CATHODICALLY PROTECTED METALLIC PIPE BY COATING DATE	1. TRANSMISSION					
	2. GATHERING					
C. COATED AND NOT CATHODICALLY PROTECTED METALLIC PIPE BY INSTALLATION DATE	1. TRANSMISSION					
	2. GATHERING					

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D. COATED AND CATODICALLY PROTECTED METALLIC PIPE BY CATHODIC PROTECTION DATE	1. TRANSMISSION						
	2. GATHERING						
E. BARE AND CATHODICALLY PROTECTED METALLIC PIPE BY CATHODIC PROTECTION DATE	1. TRANSMISSION						
	2. GATHERING						
F. PLASTIC PIPE BY ORIGINAL INSTALLATION DATE	1. TRANSMISSION						
	2. GATHERING						

PART V NUMBER OF LEAKS REPAIRED IN TRANSMISSION AND GATHERING LINES DURING YEAR BY PART AND BY CAUSE

PART WHICH LEAKED	a. TRANSMISSION b. GATHERING	CAUSE OF LEAK							
		CORROSION (1)	OUTSIDE FORCE DAMAGE: CONSTRUCTING EQUIPMENT & BLASTING (2)	OUTSIDE FORCE DAMAGE: NATURAL CAUSES (3)	CONSTRUCTION DEFECT (4)	MATERIAL FAILURE (5)	COMPONENT WEAR/DETERIORATION (6)	OTHER (7)	SYSTEM TOTAL (8)
A. BODY OF PIPE: 1. STEEL	a. T								
	b. G								
2. CAST IRON	a. T								
	b. G								
3. DUCTILE IRON	a. T								
	b. G								
4. POLYETHYLENE	a. T								
	b. G								
5. POLYVINYL CHLORIDE (PVC)	a. T								
	b. G								
6. THERMOSETTING PLASTIC	a. T								
	b. G								
7. OTHER PLASTIC (Specify)	a. T								
	b. G								
8. OTHER MATERIAL (Specify)	a. T								
	b. G								
B. SEAM: 1. SPIRAL OR LONGITUDINAL	a. T								
	b. G								
C. JOINT: 1. GAS GIRTH WELD	a. T								
	b. G								
2. ARC GIRTH WELD	a. T								
	b. G								
3. PLASTIC FUSION, ADHESIVE OR SOLVENT	a. T								
	b. G								
4. MECHANICAL JOINT	a. T								
	b. G								
5. BELL AND SPIGOT	a. T								
	b. G								
6. THREADED JOINT	a. T								
	b. G								
D. COMPONENT: 1. FITTING	a. T								
	b. G								
2. VALVE	a. T								
	b. G								
3. TAP FITTING	a. T								
	b. G								
4. REGULATOR	a. T								
	b. G								
5. COMPRESSOR	a. T								
	b. G								
6. METER	a. T								
	b. G								
7. OTHER (Specify)	a. T								
	b. G								
E. SYSTEM TOTAL	a. T								
	b. G								

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PART VI	NUMBER OF LEAKS REPAIRED DURING YEAR BY CAUSE AND DECADE OF INSTALLATION							
CAUSE OF LEAK		DECADE						TOTAL NO. OF LEAKS LISTED WHICH OCCURRED ON FEDERAL LANDS
		PRIOR TO 1950 (a)	1950 THRU 1959 (b)	1960 THRU 1969 (c)	1/1/70 TO 12/31 OF REPORTING YEAR (d)	SYSTEM TOTAL (e)		(f)
A. CORROSION	1. TRANSMISSION							
	2. GATHERING							
B. CONSTRUCTION EQUIPMENT & BLASTING (Outside Force Damage)	1. TRANSMISSION							
	2. GATHERING							
C. NATURAL CAUSES (Outside Force Damage)	1. TRANSMISSION							
	2. GATHERING							
D. CONSTRUCTION DEFECT	1. TRANSMISSION							
	2. GATHERING							
E. MATERIAL FAILURE	1. TRANSMISSION							
	2. GATHERING							
F. COMPONENT WEAR/ DETERIORATION	1. TRANSMISSION							
	2. GATHERING							
G. OTHER (Specify)	1. TRANSMISSION							
	2. GATHERING							
H. SYSTEM TOTAL	1. TRANSMISSION							
	2. GATHERING							
I. GRAND TOTAL NUMBER OF LEAKS ON FEDERAL LANDS	1. TRANSMISSION →							
	2. GATHERING →							

PART VII	MILES OF TRANSMISSION AND GATHERING LINES IN SYSTEM AT END OF YEAR BY NOMINAL SIZE AND MATERIAL									
NOMINAL DIAMETER		MATERIAL								
		STEEL (a)	CAST IRON (b)	DUCTILE IRON (c)	POLYETHYLENE (d)	POLYVINYL CHLORIDE (e)	THERMOSETTING PLASTIC (f)	OTHER PLASTIC (Specify) (g)	OTHER MATERIAL (Specify) (h)	SYSTEM TOTAL (i)
A. 1" OR LESS	1. TRANSMISSION									
	2. GATHERING									
B. OVER 1" THRU 2"	1. TRANSMISSION									
	2. GATHERING									
C. OVER 2" THRU 4"	1. TRANSMISSION									
	2. GATHERING									
D. OVER 4" THRU 6"	1. TRANSMISSION									
	2. GATHERING									
E. 8" AND 10"	1. TRANSMISSION									
	2. GATHERING									
F. 12" AND 14"	1. TRANSMISSION									
	2. GATHERING									
G. 16" AND 18"	1. TRANSMISSION									
	2. GATHERING									
H. 20" AND 22"	1. TRANSMISSION									
	2. GATHERING									
I. 24" AND 26"	1. TRANSMISSION									
	2. GATHERING									
J. 28" AND 30"	1. TRANSMISSION									
	2. GATHERING									
K. 32" AND 34"	1. TRANSMISSION									
	2. GATHERING									
L. 36" AND 38"	1. TRANSMISSION									
	2. GATHERING									
M. 40" AND 42"	1. TRANSMISSION									
	2. GATHERING									
N. 44" AND 48"	1. TRANSMISSION									
	2. GATHERING									
O. 50" AND 52"	1. TRANSMISSION									
	2. GATHERING									
P. 54" AND 58"	1. TRANSMISSION									
	2. GATHERING									

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Q. OVER 56"	1. TRANSMISSION										
	2. GATHERING										
R. SYSTEM TOTAL	1. TRANSMISSION										
	2. GATHERING										

PART VIII	TOTAL NUMBER OF KNOWN SYSTEM LEAKS INDICATED AT END OF YEAR SCHEDULED FOR REPAIR (AS INDICATED FROM SURFACE EXAMINATIONS)		
LEAK LOCATION	TRANSMISSION (1)	GATHERING (2)	LOCATION TOTAL (3)
A. ONSHORE →			
B. OFFSHORE →			
C. SYSTEM TOTAL →			
D. GRAND TOTAL OF KNOWN LEAKS SCHEDULED FOR REPAIR →			

PART IX	TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR			
* Injured means non-fatal injuries requiring hospitalization	NUMBER OF FATALITIES	NUMBER OF PERSONS INJURED *	E. NUMBER OF FIRES AND EXPLOSIONS	
			1. FIRES CAUSED DIRECTLY OR INDIRECTLY BY LEAKS	NO.
A. EMPLOYEE(S) OF OPERATOR	1.	2.	2. EXPLOSIONS CAUSED DIRECTLY OR INDIRECTLY BY LEAKS	NO.
B. EMPLOYEE(S) OF OPERATOR'S CONTRACTOR	1.	2.	F. SYSTEM DAMAGE AND REPAIR COSTS	
C. EMPLOYEE(S) OF/OR OPERATOR'S PARTY CAUSING DAMAGE	1.	2.	1. ESTIMATED COST FOR PROPERTY DAMAGE AND REPAIR OF LEAKS TO OPERATOR	$
D. MEMBER(S) OF THE PUBLIC	1.	2.	2. COST OF SETTLEMENT FOR ALL CLAIMS DURING YEAR FOR PROPERTY DAMAGE AND PERSONAL INJURIES	$

PART X	ADDITIONAL DATA
A. FOR CONTINUATION OF EXPLANATION OF ITEMS ABOVE. (If more space is needed, continue on a separate sheet, identify with name of operator, and attach to this sheet.)	

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REPORTING OFFICIAL			
B. CERTIFICATION: I certify, that all the statements and answers given on this form and all attachments hereto are complete, correct, and true to the best of my knowledge.			
TYPED OR PRINTED NAME AND TITLE	SIGNATURE	TELEPHONE NUMBER (Include Area Code)	REPORTING DATE

FORM RSPA-4A

INSTRUCTIONS FOR COMPLETING FORM RSPA-4 ANNUAL REPORT FOR GAS TRANSMISSION AND GATHERING SYSTEMS

GENERAL

Who Must Report. Each operator of a gas pipeline transmission and gathering system must complete an annual report Form RSPA-4, covering all operations. Each operator that is an independent subsidiary of another operator must file a separate report.

Reporting Period and Filing Date. Form RSPA-4 must be filed annually by February 15 for operations conducted during the preceding calendar year (January 1 - December 31).

Where to File Report. In those States where the regulations of a State agency with jurisdiction over the operator require the filing of an annual report and provide for transmittal of the report to the Materials Transportation Bureau not later than February 15, operators may file Form RSPA-4 with the State agency. In all other cases, reports must be submitted by February 15 to the Director, Materials Transportation Bureau, 2100 Second Street, S.W., Washington, D.C. 20590.

Data Entries. Fill in each blank with the requested information. Record figures by rounding off to the nearest whole number (never less than 1). DO NOT RECORD DECIMALS OR FRACTIONS. If requested information is not available, give a best estimate.

Definitions. Definitions of some of the terms used in this form or Form RSPA-4, such as "system," "transmission line," "pipeline," etc., are in Section 191.3 or Section 192.3 of Title 49 of the Code of Federal Regulations.

For Further Information. If you need further information, write or call the Materials Transportation Bureau, U.S. Department of Transportation, Washington, D.C. 20590, telephone number (202) 426-3046. (NOTE: The number (202) 426-0700 is assigned solely for receiving telephonic notice of leaks required by 49 CFR 191.5.)

SPECIFIC INSTRUCTIONS

PART I - OPERATOR INFORMATION

The address of the operator should be that address where information regarding this report can be obtained. The operator code is a number assigned by MTB to every operator filing an annual report. The same number should be used by operators for the filing of all subsequent annual reports.

PART II - FOR MATERIALS TRANSPORTATION BUREAU USE ONLY

Do not make any data entries in this part.

PART III - TRANSMISSION/GATHERING SYSTEM ADDED, RETIRED, OR REPLACED DURING YEAR

(a) New Installation - includes only additional pipelines installed. Does not include replacement of existing pipelines.

(b) Acquisition - includes existing pipelines that are purchased from other pipeline operators or converted from other pipeline service.

(c) Reinstatement - means the mileage of pipe in the transmission or gathering systems which had been retired or abandoned prior to the reporting year and put back in use in the reporting year.

(d) Retired (not replaced) - means the mileage of pipe in the transmission or gathering systems which were removed from operation during the reporting year.

(e) Replaced - includes the total miles of pipe in transmission or gathering systems replacing retired facilities either by direct burial or by insertion.

PART IV - MILES OF PIPELINE IN SYSTEM AT END OF YEAR BY DECADE

Part IV pertains to the mileage of transmission or gathering lines in operation at the end of the reporting year by the decade in which transmission or gathering lines

were installed. The first two blanks in column (e) corresponding to the line titled "Total Installed by Original Installation Date" should give totals of lines B, C, D, E, and F of this part. Bare and not cathodically protected metallic pipe and plastic pipe should be listed by the decade in which they were installed. Coated and not cathodically protected metallic pipe should be listed by the decade in which they were coated. Coated and bare cathodically protected metallic pipe should be listed by the decade in which they were cathodically protected. Plastic pipe should not be included in the coated and/or cathodic protected miles of transmission or gathering lines; however, should be included on the last row of this part for "Plastic Pipe by Original Installation Date." When the decade in which the pipe was installed, coated, or cathodically protected is not known, estimate the most likely decade.

"Coated" pipes are metallic pipes coated with any hot or cold applied coating or wrapper that substantially reduces deterioration of the pipe because of corrosion to less than it would be if the line were bare. "Bare" pipes are metallic pipes without any type of hot or cold applied coating or wrapper or with a coating or wrapper that is so ineffective that it does not appreciably reduce the deterioration of the pipe because of corrosion.

PART V - NUMBER OF LEAKS REPAIRED IN TRANSMISSION AND GATHERING LINES DURING YEAR BY PART AND BY CAUSE

Data entries for Part V should include all those leaks repaired during the reporting year.

Cause of leaks are classified as follows:

(1) A "Corrosion" leak is a leak resulting from the deterioration of a pipeline caused by galvanic, bacterial, or stray current action.

(2) A "Construction Equipment & Blasting" leak is a leak resulting from contact or other force on the pipeline facility from earth-moving equipment, damage by blasting, or earth movement induced by human actions.

(3) A "Natural Causes" leak is a leak caused by forces of nature acting upon the pipeline, such as landslide, subsidence, earthquake, floods, lightning, etc.

(4) A "Construction Defect" leak is a leak caused by failure of original sound material due to an outside force being applied during the construction of the pipeline which caused a dent, gouge, excessive stress, or other defect which resulted in subsequent failure. This category also includes wrinkle bends and faulty field welds.

(5) A "Material Failure" leak is a leak caused by a defect within the material of the pipe or component or within a weld made at the time of manufacture of the pipe or component.

(6) A "Component Wear/Deterioration" leak is a leak on facility parts caused by wear or deterioration because of age, use, etc.

(7) An "Other" leak is a leak resulting from any other cause of leak, such as pipeline operating malfunction or operator error, than the cause listed above. "Other" also includes leaks resulting from damage by vehicles, such as trucks, automobiles, motorcycles, snowmobiles, and willful damage caused deliberately or intentionally, such as vandalism, sabotage, etc. The "Other Plastic" or "Other Material" rows include all other type of materials which are not listed in this form. In order to specify in detail the Other Plastic or Other Material, write in Part X, "Additional Data," the material type which has the greatest number of leaks repaired during year, identifying that such information is a continuation of Part V.

PART VI - NUMBER OF LEAKS REPAIRED DURING YEAR BY CAUSE AND BY DECADE OF INSTALLATION

Data entries for Part VI include all those repaired leaks indicated in Part V but grouped according to the decade of

the original installation of the pipeline involved. The sum of the column totals must equal the sum of the row totals. Notice that the last column (f) and the last row (I) of this Part, which requests, by Cause of Leak, information about the number of leaks on Federal lands, are independent from the rest of Part VI. The data entries requested under column (f) should be taken from the information listed in column (e).

PART VII - MILES OF TRANSMISSION AND GATHERING LINES IN SYSTEM AT END OF YEAR BY NOMINAL SIZE AND BY MATERIAL

Data entries for Part VII should include "Other Plastic" and "Other Material." The Other Plastic and Other Material columns include all other types of plastic or material which are not named in this form. In order to specify in detail the Other Plastic or Other Material, write in Part X, "Additional Data" the material type which has the greatest mileage of transmission or gathering lines of all other plastics or materials, identifying that such information is the continuation of Part VII.

PART VIII - TOTAL NUMBER OF KNOWN SYSTEM LEAKS INDICATED AT END OF YEAR SCHEDULED FOR REPAIR

Data entries for Part VIII are the total number of known leaks indicated by a ground surface or underwater

examination of the pipeline system and which are scheduled for repair (but not yet repaired) at the end of the reporting year.

PART IX - TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR

"Injuries" means nonfatal injuries requiring hospitalization. "Members of the Public" are persons who are not employees.

Estimated cost for property damage and repair of leaks to operator include all "out-of-pocket" costs incurred in repairing the leak or damage, such as direct labor costs, material costs, and charges for equipment uses, gas lost, supervision, overhead, etc.

PART X - ADDITIONAL DATA AND REPORTING OFFICIAL

Explain in "Additional Data" any large decrease or increase in the data reported previously such as the purchase or sale of facilities. The operator shall state the name and title of the pipeline reporting official responsible for compiling and filing the annual report along with the telephone number, including the Area Code, at which this official can be reached, and the date the annual report is completed.

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